



*Image*

Attorney's Docket No.: 16163-011001 / GI005379

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Desiree H. Tsao et al  
Serial No. : 09/821,819  
Filed : March 29, 2001  
Title : N-TRADD ACTIVE SITE AND USES THEREOF

Art Unit : 1631  
Examiner : M. Borin

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) GENETICS INSTITUTE, LLC, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

☒ An assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 012165, Frame 0579 on September 17, 2001. On January 1, 2002, Genetics Institute, Inc. was converted to a limited liability company and changed its name to Genetics Institute, LLC, said change was recorded in the United States Patent and Trademark Office at Reel 012772, Frame 0631 on March 29, 2002. A copy of the assignment is attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Elizabeth M. Barnard, Reg. No. 31,088  
Rebecca R. Barrett, Reg. No. 35,152  
Christine P. Bellon, Reg. No. 41,611  
Gavin T. Bogle\*  
Diana M. Collazo, Reg. No. 46,635  
Sean P. Daley, Reg. No. 40,978  
Harold H. Fox, Reg. No. 41,498  
John J. Gagel, Reg. No. 33,499  
John F. Hayden, Reg. No. 37,640  
Elizabeth A. Hurley, Reg. No. 41,859  
David A. Manspeizer, Reg. No. 37,540  
Gale F. Matthews, Reg. No. 32,269

Arnold S. Milowsky, Reg. No. 35,288  
Louis Myers, Reg. No. 35,965  
Robert C. Nabinger, Reg. No. 33,431  
Michael R. Nagy, Reg. No. 33,432  
Tu N. Nguyen, Reg. No. 42,934  
M. Andrea Ryan, Reg. No. 28,469  
Leda I. Trivinos, Reg. No. 50,635  
Albert R. Ubieto, Reg. No. 43,212  
Wendy S. Vincente, Reg. No. 45,496  
Darryl L. Webster, Reg. No. 34,276  
Dorothy P. Whelan, Reg. No. 33,814

\*Limited Recognition Under 37 C.F.R. § 10.9(b)

Applicant : Desiree H. Tsao et al  
Serial No. : 09/821,819  
Filed : March 29, 2001  
Page : 2 of 2

Attorney's Docket No.: 16163-011001 / GI005379

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to:

**PTO Customer Number: 26171**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: 10/13/03

M. Andrea Ryan  
M. ANDREA RYAN

Title: Assistant Secretary  
On behalf of Genetics Institute, LLC

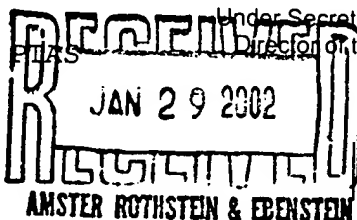
Fish & Richardson P.C.  
1425 K Street, N.W.  
11th Floor  
Washington, DC 20005-3500  
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UNITED STATES  
PATENT AND  
TRADEMARK OFFICE

JANUARY 23, 2002

AMSTER, ROTHSTEIN & EBENSTEIN  
CRAIG J. ARNOLD, ESQ.  
90 PARK AVENUE  
NEW YORK, NEW YORK 10016



Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov



\*101938080A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

CORRECTED  
NOTICE

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/17/2001

REEL/FRAME: 012165/0579  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TSAO, DESIREE H.H.

DOC DATE: 08/02/2001

ASSIGNOR:

TELLIEZ, JEAN-BAPTISTE

DOC DATE: 08/01/2001

ASSIGNOR:

MCDONAGH, THOMAS

DOC DATE: 08/01/2001

ASSIGNOR:

LIN, LIH-LING

DOC DATE: 08/01/2001

ASSIGNOR:

HSU, SANG

DOC DATE: 06/29/2001

ASSIGNOR:

XU, GUANG-YI

DOC DATE: 08/09/2001

ASSIGNOR:

MALAKIAN, A. KARL

DOC DATE: 06/27/2001

012165/0579 PAGE 2

ASSIGNEE:

GENETICS INSTITUTE, INC.  
87 CAMBRIDGE PARK DRIVE  
CAMBRIDGE, MASSACHUSETTS 02140

SERIAL NUMBER: 09821819  
PATENT NUMBER:

FILING DATE: 03/29/2001  
ISSUE DATE:

DOROTHY BASMA, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DOCKETED	1/30/02	LR
CLIENT	37174/7	
DUE DATE		



AMSTER, ROTHSTEIN & EBENSTEIN

90 Park Avenue  
New York, New York 10016

Tel. (212) 697-5995

Fax (212) 286-0854

FACSIMILE COVER PAGE

Date: January 15, 2002

To: Ms. Margaret LaSalle, Paralegal

Fax No. (703) 308-7124

Company: Assignment Division  
Office of Public Records  
U.S. Patent Office

Tel: (703) 308-9723

From: Lisa M. Melanson, Esq.

Re: (C/M) U.S. Patent Application No. 09/821,819

Title: AN N-TRADD ACTIVE SITE AND USES THEREOF

Inventors: Desirée H.H. Tsao, Jean-Baptiste Telliez,  
Thomas McDonagh, Lih-Ling Lin, Sang Hsu,  
Guang-Yi Xu, and A. Karl Malakian

Our File: 37174/7

Pages: 13 Prepd. by: LMM Return to: ca Sent by: \_\_\_\_\_ Time: \_\_\_\_\_

Message:

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MARC J. JASON  
ELIE M. GENDLOFF, PH.D.\*  
\*NOT ADMITTED IN NEW YORK

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IRA E. SILFIN  
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CRAIG J. ARNOLD

SENIOR COUNSEL

CHARLES R. MACEDO  
MARK J. ROSENBERG  
KENNETH M. BERNSTEIN

OF COUNSEL

JERRY DAINOW

January 15, 2002

via Facsimile

Ms. Margaret LaSalle, Paralegal  
Assignment Division, Office of Public Records  
U.S. Patent and Trademark Office  
Washington, D.C. 20231

Re: U.S. Patent Application No. 09/821,819  
Title: AN N-TRADD ACTIVE SITE AND USES THEREOF  
Inventors: Desirée H.H. Tsao, Jean-Baptiste Telliez,  
Thomas McDonagh, Lih-Ling Lin, Sang Hsu,  
Guang-Yi Xu, and A. Karl Malakian  
Our File: 37174/7

Dear Ms. LaSalle:

Further to our letter of December 10, 2001 to Ms. Allyson Purnell, a copy of which is enclosed, we enclose herewith a copy of a Corrected Notice of Recordation of Assignment Document, and copies of the accompanying Recordation Form Cover Sheet and Assignment, in connection with the above-identified application.

Please note that there still exists on the Notice of Recordation an error requiring correction. Specifically, the execution date for Desirée H.H. Tsao should read 08/02/2001, not 08/06/2001.

We look forward to receiving the corrected Notice of Recordation of Assignment Document at your earliest convenience.

Very truly yours,

AMSTER ROTHSTEIN & EBENSTEIN

*Lisa Melanson*

Lisa M. Melanson

LMM/ca  
Enclosures

01-17-2002

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings

101938080

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Desiree H.H. Tsao; Sang Hsu;  
Jean-Baptiste Telliez; Guang-Yi Xu;  
Thomas McDonagh; A. Karl Malakian  
Lih-Ling Lin;

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: June 27, 2001

## 2. Name and address of receiving party(ies)

Name: Genetics Institute, Inc.

Internal Address:

Street Address: 87 Cambridge Park DriveCity: Cambridge State: MA Zip: 02140Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)  
09/821,819

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig J. Arnold, Esq.Internal Address: Amster, Rothstein & EbensteinStreet Address: 90 Park AvenueCity: New York State: NY Zip: 100166. Total number of applications and patents involved: ☐7. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

01-1785

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Craig J. Arnold, Reg. No. 34,287

Name of Person Signing

Signature

September 14, 2001

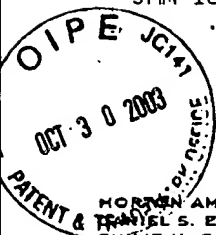
Date

Total number of pages including cover sheet, attachments, and documents: ☐Mail documents to be recorded with required cover sheet information to:  
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Washington, D.C. 20231

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NATALIE BOGDANOS  
MARC J. JASON  
ELIE H. GENDLOFF, Ph.D.

"NOT ADMITTED IN NEW YORK"

December 10, 2001

via Facsimile

Ms. Allyson Purnell, Examiner  
Assignment Division, Office of Public Records  
U.S. Patent and Trademark Office  
Washington, D.C. 20231

Re: U.S. Patent Application No. 09/821,819 (claiming the benefit  
of U.S. Provisional Application No. 60/195,370)  
Title: AN N-TRADD ACTIVE SITE AND USES THEREOF  
Inventors: Desirée H.H. Tsao, Jean-Baptiste Telliez,  
Thomas McDonagh, Lih-Ling Lin, Sang Hsu,  
Guang-Yi Xu, and A. Karl Malakian  
Our File: 37174/7

Dear Ms. Purnell:

I am enclosing a copy of a Notice of Recordation of Assignment Document, and copies of the accompanying Recordation Form Cover Sheet and Assignment, in connection with the above-identified application.

Please note that there are several errors on the Notice requiring correction:

1. the execution date for Desirée H.H. Tsao should read 08/02/2001, not 06/27/2001;
2. the execution date for Jean-Baptiste Telliez should read 08/01/01, not 06/27/2001;
3. the execution date for Thomas McDonagh should read 08/01/01, not 06/27/2001;
4. the execution date for Lih-Ling Lin should read 08/01/01, not 06/27/2001;



Ms. Allyson Purnell, Examiner

-2-

December 10, 2001

5. the execution date for Sang Hsu should read 06/29/01, not 06/27/2001; and
6. the execution date for Guang-Yi Xu should read 08/09/01, not 06/27/2001.

We look forward to receiving the corrected Notice of Recordation of Assignment Document at your earliest convenience.

Very truly yours,

AMSTER ROTHSTEIN & EBENSTEIN

*Lisa Melanson*  
Lisa M. Melanson

LMM/ca  
Enclosures

Docket No: 37174/7  
Patent 09/821,819

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

- (1) Full Name of Inventor: Desiree H.H. Tsao  
Residence: 60 Scott Road, Belmont, MA 02478  
Citizenship: US

---

- (2) Full Name of Inventor: Jean-Baptiste Telliez  
Residence: 14 Banks Street, Waltham, MA 02451  
Citizenship: France

---

- (3) Full Name of Inventor: Thomas McDonagh  
Residence: 48 Mohawk Drive, Acton, MA 01720  
Citizenship: US

---

- (4) Full Name of Inventor: Lih-Ling Lin  
Residence: 107 College Road, Concord, MA 01742  
Citizenship: US

---

- (5) Full Name of Inventor: Sang Hsu  
Residence: 63 Valley Road, Lexington, MA 02421  
Citizenship: US

---

- (6) Full Name of Inventor: Guang-Yi Xu  
Residence: 3920 Mystic Valley Parkway, Medford, MA 02155  
Citizenship: Canada

---

- (7) Full Name of Inventor: A. Karl Malakian  
Residence: 184 Littlefield Road, Boxborough, MA 01719  
Citizenship: US

hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.  
87 Cambridge Park Drive  
Cambridge, MA 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

**AN N-TRADD ACTIVE SITE AND USES THEREOF**

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 09/821,819, filed on March 29, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

ASSIGNORS authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in

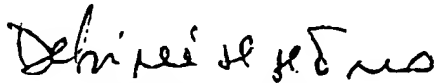
Docket No: 37174/7

Patent 09/821,819

any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this \_\_\_\_ day of \_\_\_\_\_, 2001.



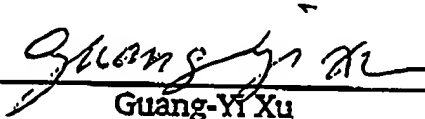
Desiree H.H. Tsao



Sang Hsu



Jean-Baptiste Tellicz



Guang-Yi Xu



Thomas McDonagh



A. Karl Malakian



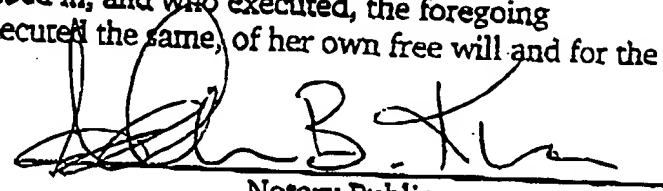
Lih-Ling Lin



Docket No: 37174/7  
Patent 09/821,819

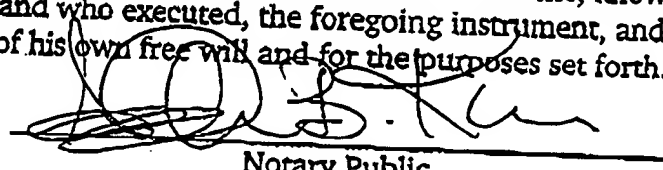
State of Massachusetts }  
County of Middlesex }  
SS:

On the 1<sup>st</sup> day of August, 2001, Lih-Ling Lin personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that she executed the same, of her own free will and for the purposes set forth.

  
Notary Public

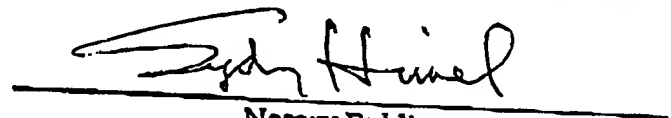
State of Massachusetts }  
County of Middlesex }  
SS:

On the 29<sup>th</sup> day of June, 2001, Sang Hsu personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

  
Notary Public

CITY TORONTO  
State of Massachusetts }  
PROVINCE ONTARIO }  
Country of Middlesex }  
CANADA }  
SS:


W On the 9<sup>th</sup> day of AUGUST, 2001, Guang-Yi Xu personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

  
Notary Public  
IN AND FOR THE  
PROVINCE OF ONTARIO  
CANADA

Docket No: 37174/7  
Patent 09/821,819

State of Massachusetts }  
County of Middlesex }  
SS:

On the 27<sup>th</sup> day of June, 2001, A. Karl Malakian personally appeared before me, known by me to be the same person described in, and who executed, the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

  
Notary Public